

Express Mail Label No.: EV139503810US
Date of Deposit: October 24, 2002

PATENT APPLICATION

Attorney Docket No. 21402-196 (CURA-496)

#5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:

Giot, et al

SERIAL NUMBER:

10/004,083

EXAMINER: Not yet assigned

FILING DATE:

October 30, 2001

ART UNIT: 1744

FOR:

PROTEIN-PROTEIN COMPLEXES AND METHODS OF USING SAME

Box Sequence

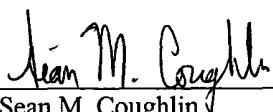
U.S. Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

**STATEMENT IN SUPPORT OF COMPUTER READABLE
FORM SUBMISSION UNDER 37 C.F.R. § 1.821(f)**

I hereby state that the content of the paper and computer readable forms of the Sequence Listing, submitted in the above-identified application in accordance with 37 C.F.R. § 1.821(c) and 1.821(e), respectively, are the same. No new matter is added at this time.

Respectfully submitted,

Dated: October 24, 2002



Sean M. Coughlin
MINTZ, LEVIN, COHN, FERRIS,
GLOVSKY and POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
Tel: (617) 542-6000
Fax: (617) 542-2241

TRA 1726280v1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Giot, et al.
 SERIAL NUMBER : 10/004,083 EXAMINER: Not Yet Assigned
 FILING DATE : October 30, 2001 ART UNIT: 1744
 FOR : Protein-Protein Complexes and Methods of Using Same

BOX SEQUENCE

U.S. Patent and Trademark Office
 P.O. Box 2327
 Arlington, VA 22202

PRELIMINARY AMENDMENT

Prior to examination of the above-identified patent application, please amend the application as set forth below and consider the following remarks.

In the Specification:

Please insert the Sequence Listing, pages 1-7, at the end of the specification.

REMARKS

Applicants submit a Sequence Listing for the nucleotide sequences disclosed in the specification, in compliance with the requirements for patent applications containing nucleotide sequences and/or amino acid sequence disclosures. 37 C.F.R. §§ 1.821-1.825.

CONCLUSION

Applicants respectfully submit that the present application complies with 37 C.F.R. §§ 1.821-1.825. If there are any questions regarding these amendments and remarks, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529
 Ivor R. Elrifi, Reg. No. 39,529
 Attorneys for Applicants
 MINTZ, LEVIN, COHN, FERRIS,
 GLOVSKY and POPEO, P.C.
 One Financial Center
 Boston, Massachusetts 02111
 Tel: (617) 542-6000
 Fax: (617) 542-2241

Dated: October 24, 2002

DS 50
1031

#4

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/004,083

DATE: 11/13/2002
TIME: 16:12:54

Input Set : A:\Cura196.app
Output Set: N:\CRF4\11132002\J004083.raw

3 <110> APPLICANT: Giot, Loic
4 Eisen, Andrew
5 Lewin, David A
7 <120> TITLE OF INVENTION: Protein-Protein Complexes and Methods of Using Same
9 <130> FILE REFERENCE: 21402-196
11 <140> CURRENT APPLICATION NUMBER: 10/004,083
C--> 12 <141> CURRENT FILING DATE: 2002-10-24
14 <150> PRIOR APPLICATION NUMBER: 60/246,236
15 <151> PRIOR FILING DATE: 2000-10-30
17 <160> NUMBER OF SEQ ID NOS: 21
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 374
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <400> SEQUENCE: 1
27 ttttagtagac ctcgtaaaact ttataaacat tcaagtactt cctcgctat tgctaaagga 60
28 ggagttgacc acacccaaat gagtctacat ggtgcttagt ggggacatga gagatcaaga 120
29 gatagacgaa ggtcaagtga cagatcacga gattcatctc atgaaagaac ggagtctcag 180
30 ctcactcctt gtattagaaa tgtgacttct ccaacacgac agcaccatgt tgaacgagaa 240
31 aaagatcaca gttcctctcg tccaaggcgt ccgcgtcctc aaaaagcatc cccaaatgg 300
32 tccattagca gtgctggaa cagcagcaga aacaatgtc agtcaagttc agatggtagc 360
33 tctaagacag ctgg 374
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 564
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapiens
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature
43 <222> LOCATION: (1)
44 <223> OTHER INFORMATION: Wherein n is a or t or c or g.
46 <220> FEATURE:
47 <221> NAME/KEY: misc_feature
48 <222> LOCATION: (4)
49 <223> OTHER INFORMATION: Wherein n is a or t or c or g.
51 <400> SEQUENCE: 2
W--> 52 nggngctctg gccccggcct ttgccccat cttgtgtggg cactgaaggg ggactacagg 60
53 ttcgagagt atgggtgcta catgtgtctt ttcagagcag tagtgtgagg aagcttggag 120
54 tgggatggca ggacggcctc atccctatga tggtaactcc agtcatccag agaattggga 180
55 tcggaaattt catagtagac ctcgtaaaact ttataaacat tcaagtactt cctcgctat 240
56 tcttaaagga ggagttgacc acacccaaat gagtctacat gatgttagt ggggacatga 300
57 gagatcaaga gatagacgaa ggtcaagtga cagatcacga gatcatctc atgaaagaac 360
58 ggagtctcag ctcactcctt gtattagaaa tgtgacttct ccaacacgac agcaccatgt 420

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/004,083

DATE: 11/13/2002
TIME: 16:12:54

Input Set : A:\Cural196.app
Output Set: N:\CRF4\11132002\J004083.raw

59 tgaacgagaa aaagatcaca gttcctctcg tccaaaggcttccatc aaaaaggcatc 480
60 cccaaatggt tccattagca gtgctggaa cagcagcaga aacagtagtc agtcaagttc 540
61 agatggtagc tgtaaacacag ctgg 564
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 486
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 3
70 cgagtacaga tacaactgga tggctccttc cttgcgc当地 gagaggtttgc ctttaagat 60
71 ctcacccaaag cccagcaaac cactgaggcc ttgtattcag ctgagcagca agaatgaagc 120
72 cagtggaaatg gtggccccgg ctgtccagga gaagaagggtg aaaaaggccc tgtccttcgc 180
73 agacaaccag gggctggccc tgacaatggt caaatgttc tcggaattcg atgacccgct 240
74 agatatgcca ttcaacatca ccgagctcct agacaacatt gtgagcttga cgacagcaga 300
75 gagcggagac tttgttctgg attttccca gccccttgca gattacttag acttttagaaa 360
76 tcgacttcag gccgaccacg tctgccttga gaactgtgtc ctcaaggaca aggcattgca 420
77 ggcactgtga aggttcagaa cctcgattt gagaagaccg tgaaaatagg atgacgtcga 480
78 cacctg 486
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 376
83 <212> TYPE: DNA
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 4
87 gcatcaaaaat taagaagaaa aaaaaaggatc tgcacccatc ggctgccaag ccaagccct 60
88 ttgaaggggaa aacgagcaca gaaccaagca cagccaaacc ttcttccca gaaccagcac 120
89 cacccatcga ggcaatggac cagaccgtc caggcaccctt gttcccccgttgaagtcc 180
90 cggagctcat ggatacagcc tctttggagc caggagctt ggtatgccaag ccagtggaga 240
91 gtcctggaga tcctaaccat ctgaccggaa aaggcaggaa gaggaaaatgtt gtcacatggc 300
92 ctgaggaagg caaaactgaga gaatatttctt attttgaattt ggtatgaaactt gaacgagtaa 360
93 atgtgaataa gatcaa 376
96 <210> SEQ ID NO: 5
97 <211> LENGTH: 479
98 <212> TYPE: DNA
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 5
102 cagaggcagg tttgtacac aggagcgaac acgcaggcgg cggcccccagc gactcgcaac 60
103 tgcctccctg accacagcgg ccaccggccca acaccccccga gaagccatcg ccaccacccgg 120
104 caggagaacc taggtccat aaagccatct tcgcatcg ctaaagctac gtcaacaact 180
105 atggcggggcg acggcggcg ggcagaggcg gtgcgggaaat gatgggggtgt gtacgtcacc 240
106 cccagggccc ccatccgaga gggaaaggggc cggctcgccc ctcaaaaatgg cggcagcagc 300
107 gatgcgcctg cgtacagaac tcctccgtcg cggcaggccc ggcgggaaat gaggttctcg 360
108 gacgagccgc cagaatgtt cggcacttc gagccctgg tggccaaaga aaggtccccc 420
109 gtggggaaaac caacccggct acaagagtc ggctcgattt tgcgaaagag aagtagaga 479
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 474
114 <212> TYPE: DNA
115 <213> ORGANISM: Homo sapiens
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: (317)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/004,083

DATE: 11/13/2002
TIME: 16:12:54

Input Set : A:\Cural196.app
Output Set: N:\CRF4\11132002\J004083.raw

181 <213> ORGANISM: Homo sapiens
 183 <400> SEQUENCE: 10
 184 Gly Ser Ala Gln Glu Arg Val Phe Leu Leu Ala Lys Glu Arg Glu Pro
 185 1 5 10 15
 187 Leu Thr Met Val Ala Thr Gly Ser Leu Ser Ser Lys Asn Pro Ala Ser
 188 20 25 30
 190 Ile Ser Glu Leu Leu Asp Cys Gly Tyr His Pro Glu Ser Leu Leu Ser
 191 35 40 45
 193 Asp Phe Asp Tyr Trp Asp Tyr Val Val Pro Glu Pro Asn Leu Asn Glu
 194 50 55 60
 196 Val Ile Phe Glu Glu Ser Thr Trp Gln Asn Leu Val Lys Met Leu Glu
 197 65 70 75 80
 199 Asn Cys Leu Ser Lys Ser Lys Gln Thr Lys Leu Gly Cys Ser Lys Val
 200 85 90 95
 202 Leu Val Pro Glu Lys Leu Thr Gln Arg Ile Ala
 203 100 105
 206 <210> SEQ ID NO: 11
 207 <211> LENGTH: 413
 208 <212> TYPE: DNA
 209 <213> ORGANISM: Homo sapiens
 211 <400> SEQUENCE: 11
 212 gtggaccagc tggaaaagga gattgagctg ccctcgcc agttgatggg actttcaac 60
 213 cggatcatcc gcaaagtgtt gaagctattt aatgaagttc aggaaaaggc cattgaggag 120
 214 cagatggtttgg cagcgaagga tgggtcatg gagcccacga tgaagaccc tggatggac 180
 215 ctagatgaag cagcaaagga atttcaggag aaacacaaga aggaagttagg gaaatgttgg 240
 216 agcatggacc tctctgataa cataatccgt ggggacgatg aagagtggaa tggatggaa 300
 217 aacaaagctg ggccgaacgc ctgcgtatc aacatggaaa gtgacaagaa aacatggat 360
 218 gaggccaaac aagaaaccca aacagagcag aaatgttggaa aacagagaga caa 413
 221 <210> SEQ ID NO: 12
 222 <211> LENGTH: 380
 223 <212> TYPE: DNA
 224 <213> ORGANISM: Homo sapiens
 226 <400> SEQUENCE: 12
 227 tctctttaa gatttttgt tcttttgcact tataatggaaa gttattatac ttgattgtga 60
 228 aatagggtttt actatgataa tttgctgacc tacacttatt ttgtttttt cctctaaaac 120
 229 aatgttttcc taatgtttat ttactttgt cttatggcta cccagtcgttgc ttccacatgc 180
 230 cctcttttgg ccaaaccatc cgcaatttgc gctctccctg tcttctatct ttgccttcct 240
 231 tcttctttct tagatattta atcctggatg cctctatttc tatttcactgt actatggcat 300
 232 cagttatag tcccttaattt gcaatgaact ctatgaagct cacatgtcta gaatataatc 360
 233 actttggctt ctttcatgtt 380
 236 <210> SEQ ID NO: 13
 237 <211> LENGTH: 472
 238 <212> TYPE: DNA
 239 <213> ORGANISM: Homo sapiens
 241 <400> SEQUENCE: 13
 242 ttcacaaacgct gcccgttcct aaagcaagtc ttgcttcggg tcacccccc cctgggtggca 60
 243 gcccaggaaa ggggaaaagga agaagacact ggaaatgcat gggccagcccc ctatggggcat 120
 244 gaggaaggag ctttcaggtt gcccacaag cccttagctt gggccagggg ctctgggggg 180
 245 ctgaggggac cagactgggt gcaggccctt gggagctgc agcccttc ccactgggt 240

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/004,083

DATE: 11/13/2002
TIME: 16:12:54

Input Set : A:\Cura196.app
Output Set: N:\CRF4\11132002\J004083.raw

246 tccgcagaac tgggactctc acttcagggg ccaccacatc cctcctctct gcttctcccc 300
247 ccagatcaa ggttaccctc ccacgggttgg cagggcctgg ctgagtgcct ctgcaccct 360
248 ttgtgcccac cacaggcggt cccaggaagg gcagcaaggt cagaccatc ctcatggaaa 420
249 accgtggcta gggcacaggg ctctgatctg aaggagtgac agatatgtca ca 472
252 <210> SEQ ID NO: 14
253 <211> LENGTH: 21
254 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of Artificial Sequence:Gal-4 BD domain
259 sequence
261 <400> SEQUENCE: 14
262 Glu Lys Gly Leu Val Phe Gln Lys Phe Leu Gly Phe Leu Leu Lys Asn
263 1 5 10 15
265 Leu Lys Ala Gln Pro
266 20
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 37
271 <212> TYPE: PRT
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence:Gal-4 BD domain
277 <400> SEQUENCE: 15
278 Phe Lys Arg Cys Pro Phe Leu Lys Gln Val Leu Leu Arg Val Thr Ser
279 1 5 10 15
281 His Leu Val Ala Ala Arg Glu Arg Gly Lys Glu Glu Asp Thr Gly Asn
282 20 25 30
284 Ala Trp Pro Ala Pro
285 35
288 <210> SEQ ID NO: 16
289 <211> LENGTH: 31
290 <212> TYPE: PRT
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Description of Artificial Sequence: Phosphatase 1
295 binding domain
297 <400> SEQUENCE: 16
298 Asn Glu Ala Ser Gly Met Val Ala Pro Ala Val Gln Glu Lys Lys Val
299 1 5 10 15
301 Lys Lys Arg Val Ser Phe Ala Asp Asn Gln Gly Leu Ala Leu Thr
302 20 25 30
305 <210> SEQ ID NO: 17
306 <211> LENGTH: 31
307 <212> TYPE: PRT
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence: Phosphatase 1
312 binding domain
314 <400> SEQUENCE: 17

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/004,083

DATE: 11/13/2002
TIME: 16:12:55

Input Set : A:\Cural196.app
Output Set: N:\CRF4\11132002\J004083.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 1,4
Seq#:6; N Pos. 317